

ECE 595: Artificial Intelligence

Project Proposal Summary (one Page)

Proposed Title of the Project: *Android APP: Is Your Car Locked*

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Proposal Summary:

This Android application helps people who have dysaudia or amnesia to find out if there was locked successfully. This process was done by the smart phone locally. Users need to setup by play the beep of the car to their smart phone before the first use. The beep will be picked up by the microphone and then processed locally. The smartphone will record the characteristics of the beep for future use. After setup procedure, users can use the APP by simply open the APP and then lock their car. The smartphone will pick up the beep and do the same process, and then try to match the recorded characteristics of the beep. If it is matched, smartphone will show the state of car on screen. This application was planned to be sensitive, accurate and easy to use. The application needs to be able to recognize the beep of the user's as far as fifty yards. So that if user walked away with car unlocked, they will not need to come back to car. The process cannot be disturbed by surrounding noise. The target users are people who have dysaudia or amnesia. The average age of this group will be order than normal. So it has to be easy to use by old people, that is the operation of the application has to be simple and the displays on the screen has to be easily readable by old people. There are many voice recognition applications on smartphone, like the Siri in iPhone and S Voice in Samsung phone. They are both very complex systems. So they will require internet access to be able to use. And they do not have the function like this design so far. This application will work totally locally, and it is compatible with most of the smartphones on the market. This Android application helps people who have dysaudia or amnesia to lock their car. It is a small application. This project will only develop the functional portion of the application. Before pushing it to public, more works on user interface and compatibility of various smart phone will be needed.

Keywords: *Android Application, Dysaudia, Amnesia, Car, Lock, Audio-Aids*